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Methre LO	CHNER USER NAME =	DESIGNED -	REVISED -		OVERHEAD SIGN STRUCTURES - 0	
Biginzering Associates, Bic.	HNER, WC., CHICAGO, ILLINOIS	CHECKED - DW	REVISED -	STATE OF ILLINOIS		
One DeGatements Conditions	PLOT SCALE =	DRAWN ~ JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	ELEVATION – ALUMINUM TRUSS	
Regina Webster & Accodutes, Inc.	GG ENGINEERING INC PLOT DATE = 12/20/2011	DATE - 10-21-2011	REVISED -		SHEET NO. 1 OF 20 SHE	

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GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:

Field Units

f'c = 3,500 p.s.i. fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Evebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final around line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

	ITEN	Μ		UNIT	TOTAL				
	OVERHEAD SIGN STRUCTURE SPA	PE I-A	Foot						
	OVERHEAD SIGN STRUCTURE SPA	PE II-A	Foot	120					
	OVERHEAD SIGN STRUCTURE SPA	PE III-A	Foot	100					
	OVERHEAD SIGN STRUCTURE WAL	Foot	87						
	CONCRETE FOUNDATIONS		Cu. Yds.						
	DRILLED SHAFT CONCRETE FOUL	Cu. Yds.	64.5						
	REINFORCEMENT BARS - EPOXY	Pounds	10470						
A Rev. 1-9-12									
ES – GENERAL PLAN &		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
RUSS & STEEL SUPPORTS		90	(X2-1) R	WINNEBAGO	510	308			
				CONTRAC	T NO. 6	4C29			
20 SHEETS		ILLINOIS FED. AID PROJECT							